

# Gregor von Laszewski

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## EDUCATION

- Sept. 1991 - Nov. 1996    Ph.D., Computer Science, Syracuse University, Syracuse, NY.
- Sept. 1987 - Nov. 1990    Diploma (M.S.), Computer Science, Rheinische Friederich-Wilhelms University, Bonn, Germany.
- Sept. 1984 - April 1987    Pre-Diploma (B.S.), Computer Science, Rheinische Friederich-Wilhelms University, Bonn, Germany.

## EXPERIENCE

- Jan. 2000 - present    **Computation Institute.** Fellow, Computation Institute, University of Chicago and Argonne National Laboratory.
- Nov. 1998 - present    **Argonne National Laboratory,** Argonne, IL. Assistant computer scientist, Mathematics and Computer Science Division.
- Jan. 2002 - Dec. 2002    **Illinois Institute of Technology.** Visiting professor, Computer Science Department of the Illinois Institute of Technology.
- Nov. 1996 - Nov. 1998    **Argonne National Laboratory,** Argonne, IL. Postdoctoral researcher, Mathematics and Computer Science Division.
- June. 1994 - Jan. 1995    **NASA Goddard Space Flight Center,** Greenbelt, MD, under contract with the University Research Space Agency (USRA). Research assistant.
- Feb. 1987 - Sept. 1990    **German National Research Center for Information Technology (GMD)** (now Fraunhofer Gesellschaft), Bonn. Research assistant.

## AWARDS

- Nov. 1998    Best of show award in the High Performance Computing Challenge, Supercomputing'98, Orlando, FL.
- Oct. 1992    Overall best student paper at Supercomputing'92.

## COPYRIGHTS

- [1] Gregor von Laszewski and Jarek Gawor. Copyright of the LDAP Browser/Editor. <http://www-unix.mcs.anl.gov/~gawor/ldap/>, August 1999.

## GRANTS

- [1] Randy Brameley, Rick McMullan, John Hoffman, and Gregor von Laszewski. NGI-A Grid-based Collaboratory for Real-Time Data Acquisition-IU/ANL, FWP 56890, \$300K, FY1999.
- [2] Gregor von Laszewski. Java CoG Kit Technologies, NSF Grant ACI-9619019, \$70K, FY2002.
- [3] Gregor von Laszewski and Keith Jackson. SciDAC: Commodity Grid Kits, Enabling Middleware for Designing Science Applications. <http://www.cogkits.org>, \$750K, 10/2001-10/2003.

# PUBLICATIONS AND PRESENTATIONS

## Book Chapters and Refereed Journal Articles

- [1] Gregor von Laszewski, Jarek Gawor, Sriram Krishnan, and Keith Jackson. *Grid Computing: Making the Global Infrastructure a Reality*, Commodity Grid Kits - Middleware for Building Grid Computing Environments. Communications Networking and Distributed Systems. Wiley, to be published 2003.
- [2] Gregor von Laszewski, Gail Pieper, and Patrick Wagstrom. Gestalt of the Grid. In *Performance Evaluation and Characterization of Parallel and Distributed Computing Tools*, Wiley Book Series on Parallel and Distributed Computing, to be published 2003.
- [3] Mary Thomas, Steve Mock, and Gregor von Laszewski. A Perl Commodity Grid Kit. *Concurrency and Computation: Practice and Experience*, accepted.
- [4] Gregor von Laszewski, Jarek Gawor, Peter Lane, Nell Rehn, Mike Russell, and Keith Jackson. Features of the Java Commodity Grid Kit. *Concurrency and Computation: Practice and Experience*, 14:1045–1055, 2002.
- [5] Manish Parashar, Gregor von Laszewski, Snigdha Verma, Jarek Gawor, and Kate Keahey. A CORBA Commodity Grid Kit. *Concurrency and Computation: Practice and Experience*, 14:1057–1074, 2002.
- [6] Gregor von Laszewski, Michael Russell, Ian Foster, John Shalf, Gabrielle Allen, Greg Daues, Jason Novotny, and Edward Seidel. Community Software Development with the Astrophysics Simulation Collaboratory. *Concurrency and Computation: Practice and Experience*, 14:1289–1301, 2002.
- [7] Michael Russell, Gabrielle Allen, Ian Foster, Ed Seidel, Jason Novotny, John Shalf, Gregor von Laszewski, and Greg Daues. The Astrophysics Simulation Collaboratory: A Science Portal Enabling Community Software Development. *Journal on Cluster Computing*, 5(3):297–304, July 2002.
- [8] Vladimir Getov, Gregor von Laszewski, Michael Philippsen, and Ian Foster. Multi-Paradigm Communications in Java for Grid Computing. *Communications of ACM*, 44(10):119–125, October 2001.
- [9] Gregor von Laszewski, Ian Foster, Jarek Gawor, and Peter Lane. A Java Commodity Grid Kit. *Concurrency and Computation: Practice and Experience*, 13(8-9):643–662, 2001.
- [10] Yuxin Wang, Fransesco De Carlo, Derrick Mancini, Ian McNulty, Brian Tieman, John Bresnahan, Ian Foster, Joseph Insley, Peter Lane, Gregor von Laszewski, Carl Kesselman, Mei-Hui Su, and Marcus Thiebaux. A High-Throughput X-Ray Microtomography System at the Advanced Photon Source. *Review of Scientific Instruments*, 72(4):2062–2068, April 2001.
- [11] Gregor von Laszewski, Ian Foster, and George Thiruvathukal. *Advanced Infrastructure for Future Healthcare*, volume 79 of *Studies in Health Technology and Informatics*, Making Large-Scale Telemedicine Work: A Computational Infrastructure for Telemedicine, pages 195–213. IOS Press, 2000.
- [12] Gregor von Laszewski, Mary Westbrook, Ian Foster, Edwin Westbrook, and Craig Barnes. Using Computational Grid Capabilities to Enhance the Ability of an X-Ray Source for Structural Biology. *Cluster Computing*, 3(3):187–199, 2000.
- [13] Ian Foster, Joeseph Insley, Gregor von Laszewski, Carl Kesselman, and Marcus Thiebaux. Data Visualization: Data Exploration on the Grid. *IEEE Computer*, 14:36–41, December 1999.
- [14] Gregor von Laszewski. A Loosely Coupled Metacomputer: Cooperating Job Submissions across Multiple Supercomputing Sites. *Concurrency, Experience, and Practice*, 11(5):933–948, December 1999.

- [15] Gregor von Laszewski, Ian Foster, George K. Thiruvathukal, and Brian Toonen. A Computational Framework for Telemedicine. *Journal of Future Generation Computer Systems*, 14:10–123, 1998.
- [16] Gregor von Laszewski, A. Gaber Mohamed, and Geoffrey C. Fox. Blocked LU Factorization on a Multiprocessor Computer. *Journal for Microcomputers in Civil Engineering*, 8(1):45–56, 1993.

## Publications in Refereed Proceedings

- [1] Gregor von Laszewski, Branko Ruscic, Patrick Wagstrom, Sriram Krishnan, Kaizar Amin, Sandeep Nijsure, Reinhardt Pinzon, Melita L. Morton, Sandra Bittner, Mike Minkoff, Al Wagner, and John C. Hewson. A Grid Service Based Active Thermochemical Table Framework. In *Third International Workshop on Grid Computing*, Lecture Notes in Computer Science, pages 25–38, Baltimore, MD, 18 November 2002. Springer.
- [2] Beth Plale, Peter Dinda, Mike Helm, Gregor von Laszewski, and John McGee. Key Concepts and Services of a Grid Information Service. In *15th International Conference on Parallel and Distributed Computing Systems (PDCS 2002)*, pages 437–442, Louisville, KY, 19 September 2002.
- [3] Gregor von Laszewski. Grid Computing: Enabling a Vision for Collaborative Research. In Juha Fagerholm, Juha Haataja, Jari Järvinen, Mikko Lyly, Peter Raback, and Ville Savolainen, editors, *The Sixth International Conference on Applied Parallel Computing*, volume 2367 of *Lecture Notes in Computer Science*, pages 37–52, Espoo, Finland, 15–18 June 2002. Springer. (*Invited Talk*).
- [4] Gregor von Laszewski, Eric Blau, Michael Bletzinger, Jarek Gawor, Peter Lane, Stuart Martin, and Michael Russell. Software, Component, and Service Deployment in Computational Grids. In Judith Bishop, editor, *IFIP/ACM Working Conference on Component Deployment*, volume 2370 of *Lecture Notes in Computer Science*, pages 244–256, Berlin, Germany, 20–21 June 2002. Springer.
- [5] Gregor von Laszewski, Jarek Gawor, Carlos J. Peña, and Ian Foster. InfoGram: A Peer-to-Peer Information and Job Submission Service. In *Proceedings of the 11th Symposium on High Performance Distributed Computing*, pages 333–342, Edinbrough, U.K., 24–26 July 2002.
- [6] Michael Russell, Gabrielle Allen, Ian Foster, Ed Seidel, Jason Novotny, John Shalf, Gregor von Laszewski, and Greg Daues. The Astrophysics Simulation Collaboratory: A Science Portal Enabling Community Software Development. In *Proceedings of the 10th IEEE International Symposium on High Performance Distributed Computing*, pages 207–215, San Francisco, CA, 7–9 August 2001.
- [7] Sudharshan Vazhkudai and Gregor von Laszewski. A Greedy Grid - The Grid Economic Engine Directive. In *First International Workshop on Internet Computing and E-Commerce (ICEC'01)*, page electronically published, San Francisco, California, USA, 27 April 2001.
- [8] Snighda Verma, Manish Parashar, Jarek Gawor, and Gregor von Laszewski. Design and Implementation of a CORBA Commodity Grid Kit. In Craig A. Lee, editor, *Second International Workshop on Grid Computing - GRID 2001*, volume 2241 of *Lecture Notes in Computer Science*, pages 2–12, Denver, November 2001. Springer.
- [9] Gregor von Laszewski, Ian Foster, Jarek Gawor, Peter Lane, Nell Rehn, and Mike Russell. Designing Grid-based Problem Solving Environments and Portals. In *34th Hawaiian International Conference on System Science*, Maui, Hawaii, 3–6 January 2001. <http://www.mcs.anl.gov/~laszewsk/papers/cog-pse-final.pdf>, <http://computer.org/Proceedings/hicss/0981/volume%209/0981toc.htm>.
- [10] Gregor von Laszewski, Ian Foster, Jarek Gawor, Warren Smith, and Steve Tuecke. CoG Kits: A Bridge between Commodity Distributed Computing and High-Performance Grids. In *ACM Java Grande 2000 Conference*, pages 97–106, San Francisco, CA, 3–5 June 2000.

- [11] Gregor von Laszewski, Kazuyuki Shudo, and Yoichi Muraoka. Grid-based Asynchronous Migration of Execution Context in Java Virtual Machines. In Arndt Bode, Thomas Ludwig, Wolfgang Karl, and Roland Wismüller, editors, *Proceedings of EuroPar 2000*, volume 1900 of *Lecture Notes in Computer Science*, pages 22–34, Munich, Germany, 29 August - 1 September 2000. Springer. (*Invited Talk*).
- [12] Gregor von Laszewski, Mei-Hui Su, Joseph A. Insley, Ian Foster, John Bresnahan, Carl Kesselman, Marcus Thiebaux, Mark L. Rivers, Steve Wang, Brian Tieman, and Ian McNulty. Real-Time Analysis, Visualization, and Steering of Microtomography Experiments at Photon Sources. In *Ninth SIAM Conference on Parallel Processing for Scientific Computing*, San Antonio, TX, 22-24 March 1999.
- [13] Gregor von Laszewski and Ian Foster. Grid Infrastructure to Support Science Portals for Large Scale Instruments. In *Proceedings of the Workshop Distributed Computing on the Web (DCW)*, pages 1–16. University of Rostock, Germany, 21-23 June 1999. (*Invited Talk*).
- [14] Yuxin Wang, Francesco De Carlo, Ian Foster, Joseph Insley, Carl Kesselman, Peter Lane, Gregor von Laszewski, Derrick Mancini, Ian McNulty, Mei-Hui Su, and Brian Tieman. A Quasi-Realtime X-Ray Microtomography System at the Advanced Photon Source. In *Proceedings of SPIE99*, volume 3772, pages 301–309, Orlando, FL, 4-6 April 1999.
- [15] Gregor von Laszewski, P. Stelling, I. Foster, C. Kesselman, and C.Lee. A Fault Detection Service for Wide Area Distributed Computations. In *Proceedings of the 7th IEEE International Symposium on High Performance Distributed Computing*, pages 268–278, Chicago, IL, 28-31 July 1998.
- [16] Gregor von Laszewski, S. Fitzgerald, I. Foster, C. Kesselman, W. Smith, and S. Tuecke. A Directory Service for Configuring High-Performance Distributed Computations. In *Proceedings of the 6th IEEE Symposium on High-Performance Distributed Computing*, pages 365–375, 5-8 August 1997.
- [17] Gregor von Laszewski. An Interactive Parallel Programming Environment Applied in Atmospheric Science. In G.-R. Hoffman and N. Kreitz, editors, *Making Its Mark, Proceedings of the 6th Workshop on the Use of Parallel Processors in Meteorology*, pages 311–325, Reading, UK, 2-6 December 1996. European Centre for Medium Weather Forecast, World Scientific.
- [18] Gregor von Laszewski, Mike Seablom, Milo Makivic, Peter Lyster, and Sanya Ranka. Design Issues for the Parallelization of an Optimal Interpolation Algorithm. In G.-R. Hoffman and N. Kreitz, editors, *Coming of Age, Proceedings of the 4th Workshop on the Use of Parallel Processing in Atmospheric Science*, pages 290–302, Reading, UK, 21-25 November 1994. European Centre for Medium Weather Forecast, World Scientific.
- [19] Gregor von Laszewski, Manish Parashar, A. G. Mohamed, and G. C. Fox. On the Parallelization of Blocked LU Factorization Algorithms on Distributed Memory Architectures. In *Proceedings of Supercomputing'92*, pages 170–179, Minneapolis, MN, 16-20 November 1992. IEEE Press. (Overall best student paper award).
- [20] Gregor von Laszewski. Intelligent Structural Operators for the k-way Graph Partitioning Problem. In *Proceedings of the 4th international Conference on Genetic Algorithms*, pages 45–52, San Diego, CA, 14-17 July 1991. Morgan Kaufman. (Plenary presentation).
- [21] Gregor von Laszewski and Heinz Mühlenbein. A Parallel Genetic Algorithm for the k-way Graph Partitioning Problem. In Hans-Peter Schwefel and Reinhard Männer, editors, *1st International Workshop on Parallel Problem Solving from Nature*, volume 496 of *Lecture Notes in Computer Science*, pages 165–169, Dortmund, Germany, 1-3 October 1990. Springer.
- [22] Gregor von Laszewski. A Parallel Genetic Algorithm for the Graph Partitioning Problem. In David Fielding, editor, *Transputer Research and Applications 4, Proceedings of the 4th Conference of the North-American Transputers Users Group*, pages 164–172, Ithaca, NY, 11-12 October 1990. IOS Press, Amsterdam.

## Selected Technical Reports

- [1] Sriram Krishnan, Patrick Wagstrom, and Gregor von Laszewski. GSFL: A Workflow Framework for Grid Services. In *Preprint ANL/MCS-P980-0802*, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439, U.S.A., 2002.
- [2] Gregor von Laszewski et al. GOSv3. Information services working group, Global Grid Forum, 2001. <http://www.gridforum.org>.
- [3] Gregor von Laszewski and Steve Fitzgerald. Schema definitions for Grid Objects. Grid Information Services Working Group GIS-WG 1, Global Grid Forum, September 1999.
- [4] Gregor von Laszewski. *A Parallel Data Assimilation System and Its Implications on a Meta-computing Environment*. Ph.D. thesis, Syracuse University, December 1996.
- [5] Gregor von Laszewski. A Collection of Graph Partitioning Algorithms: Simulated Annealing, Simulated Tempering, Kernighan Lin, Two Optimal, Graph Reduction, Bisection. Technical Report SCCS 477, Northeast Parallel Architectures Center at Syracuse University, April 1993.
- [6] Gregor von Laszewski, Manish Parashar, A. Gaber Mohamed, Geoffrey C. Fox, Thomasz Haupt, N. T. Lin Kim Millsand Y. H. Lu, and N. K. Yeh. Application Benchmark Set for Fortran D and High Performance Fortran. Technical Report SCCS 327, Northeast Parallel Architectures Center at Syracuse University, June 1992. (Rice University, CRPC-TR92260).

## Selected Invited Talks and Panels

- [1] Gregor von Laszewski. The State of Grid Computing in the U.S.A. In *Grid Symposium of the Ministry of Science, Germany*. Wissenschaftszentrum, Bonn, 28 November 2002. (*Invited Talk*).
- [2] The Science of Collaboratories Workshop Series - The State of Collaboratory Tools and Technologies, Sponsored by the University of Michigan and the National Science Foundation. Ann Arbor, Michigan, 2001. (*Invited Participant*).
- [3] HPC Consortium Meeting, Grid-SIG, Sun Microsystems. *Status of the Globus Project*, Heidelberg, Germany, 19-20 June 2001. (*Invited Talk*).
- [4] Gregor von Laszewski. The use of Java in High Performance Computing. In *EuroPar 2000*, 30 August 2000. (*Panelist*).
- [5] Gregor von Laszewski. Using Java in Grids. In *High Performance Computing and Java*, number 284 in Seminar 341, Dagstuhl, Germany, 20-25 August 2000. International Conference and Research Center for Computer Science. (*Invited Talk*).
- [6] Gregor von Laszewski. Using globus and java on clusters and grids. In *International Workshop on Global and Cluster Computing (WGCC'2000)*, Tsukuba, Japan, 15 - 17 March 2000. (*Invited Talk*).
- [7] Gregor von Laszewski. Panel on Commodity Technologies and Grid, ISCOPE 99, December 1999. (*Panelist*).
- [8] Gregor von Laszewski. The Globus Grid Infrastructure. Jülich, Germany, September 1999. (*Invited Talk*).
- [9] Gregor von Laszewski. Dattor, Gridforum, and Computing Portals. Jülich, Germany, September 1999. (*Invited Talk*).
- [10] Gregor von Laszewski. Recent Development in the Globus Project. In *3rd HLRS Metacomputing Workshop*, Stuttgart, Germany, 6-7 June 2000. (*Invited Talk*).
- [11] Gregor von Laszewski. JavaGrande Meeting at Supercomputing. Orlando, FL, November 1998. (*Panelist*).
- [12] Gregor von Laszewski. Recent Development in the Globus Project. In *2nd Symposium on Multidisciplinary Environments And Applications*, MAPINT '98/MDICE Workshop, Dayton, Ohio USA, August 1998. Aeronautical Systems Center (ASC), Major Shared Resource Center (MSRC), and Wright-Patterson AFB. (*Invited Talk*).

- [13] Gregor von Laszewski. Reusable Components of Globus<sup>J</sup>, October 1998. Workshop of Desktop Access to Remote Resources, JavaGrande Forum and Argonne National Laboratory, Chicago, IL.
- [14] Gregor von Laszewski. SC98 BoF: Java Grande. <http://www.javagrande.org>, Orlando, FL, November 1998. (*Panelist*).
- [15] Gregor von Laszewski. The Globus Project: A Metacomputing Toolkit for Multidisciplinary Applications. In *1st Symposium on Multidisciplinary Environments and Applications*, MAP-INT '97/MDICE Workshop, Dayton, Ohio USA, August 1997. Aeronautical Systems Center (ASC), Major Shared Resource Center (MSRC), and Wright-Patterson AFB. (*Invited Talk*).
- [16] Gregor von Laszewski. Using the Globus Metacomputing Toolkit for Seamless Computing. Supercomputing Center at ECMWF, Reading, UK, December 1997. (*Invited Talk*).

## Selected Seminars and Colloquia

- [1] Gregor von Laszewski, Nestor J. Zaluzec, and Xian-He Sun. Computationally Mediated Experimental Science. The Illinois Institute of Technology Interprofessional Projects Program, IPRO305, <http://webservices.iit.edu/ipro/>, Fall 2002. Illinois Institute of Technology, Chicago, IL.
- [2] Gregor von Laszewski and Xian-He Sun. CS595: Grid and Ubiquitous Computing. Illinois Institute of Technology, Chicago, IL, Spring 2002.
- [3] Gregor von Laszewski. The Importance of CoG Kits for Grid Users. Globus Retreat, Chicago, IL, 2001.
- [4] Gregor von Laszewski. The Java Cog Kit. Globus Retreat, Chicago, IL, 2001.
- [5] Global Grid Forum. *Introduction to the Global Grid Forum Information Services Working Group*, Amsterdam, The Netherlands, 2 March 2001.
- [6] IPDPS 2001. *Grid Computing, Globus, and Java Interface to the Grid*, San Francisco, CA, 27 April 2001. <http://www.ipdps.org/ipdps2001/2001-tutorial4.html>.
- [7] Vladimir Getov, Jose E. Moreira, Roldan Pozo, and Gregor von Laszewski. Java for High Performance Computing. In *Java One Conference and Java Grande Conference*, San Francisco, CA, 2 June 2001. <http://www.cogkits.org>, <http://www.philippsen.com/JGI2001/tutorial1.html>.
- [8] International Symposium in High Performance and Distributed Computing. *High Performance and Grid Programming in Java and Python*, San Francisco, CA, 6 August 2001. <http://www.cogkits.org>.
- [9] Gregor von Laszewski and Steve Fitzgerald. The Globus Grid Programming Toolkit. Tutorial at SC99, Portland, OR, 13-19 November 1999.
- [10] Gregor von Laszewski and Steven Fitzgerald. The Globus Grid Programming Toolkit. The 7th IEEE Symposium on High Performance Distributed Computing, July 1998.
- [11] Gregor von Laszewski. Introduction to the Metacomputing Toolkit. High Performance Computing Tutorial, The National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign, April 1998.
- [12] Gregor von Laszewski, Mary L. Westbrook, Craig Barnes, and Ian Foster. Supercomputing Data Analysis with an Example on the APS CATs. In *International Workshop on New Opportunities for Better User Group Software (NOBUGS)*. Argonne, IL, December 1997.

## SELECTED PROFESSIONAL ACTIVITIES

### Project Review Committees

- [1] UNICORE Review Committee of the German Ministry of Science, Germany. Wissenschaftszentrum, Bonn, 27 November 2002. *Member*.

- [2] UNICORE Review Committee of the German Ministry of Science, Germany. Berlin, Germany, September 2001. *Member*.
- [3] UNICORE Review Committee of the German Ministry of Science, Germany. Dresden, Germany, August 2000. *Member*.

## Conference and Workshop Committees

- [1] Nara City, Nara, Japan, <http://www.icse.eecs.uic.edu/saint2002/>, 28 January - 1 February 2002. *Committee*.
- [2] Joint ACM Java Grande - ISCOPE 2002 Conference. Seattle, Washington, <http://charm.cs.uiuc.edu/javagrandeIscope/>, 3-5 November 2002. *Committee*.
- [3] 2nd IEEE/ACM International Symposium on Cluster Computing and the Grid. Berlin, Germany, <http://ccgrid2002.zib.de/>, 21-24 May 2002. *Committee*.
- [4] GIS Working Group. GGF 2, Vienna, VA, 15-18 July 2001. *Chair*.
- [5] Joint ACM Java Grande - ISCOPE 2001 Conference. Stanford University, California, <http://www.inria.fr/JGI2001>, 2-4 June 2001. *Committee and Tutorials Chair*.
- [6] 1st IEEE/ACM International Symposium on Cluster Computing and the Grid. Brisbane, Australia, <http://www.csse.monash.edu.au/~raj कुमार/CCGrid2001/>, 15-18 May 2001. *Committee*.
- [7] Second International Workshop on Infrastructure for Agents, MAS, and Scalable MAS. The 5th International Conference on Autonomous Agents, Montreal, Canada, <http://www.cs.cf.ac.uk/User/O.F.Rana/agents2001/>, 28 May - 1 June 2001. *Committee*.
- [8] Java in High Performance Computing at HPCN Europe 2001 Conference. Amsterdam, The Netherlands, <http://perun.hscs.wmin.ac.uk/JHPC01/>, 25-27 June 2001. *Committee*.
- [9] Global Grid Forum. Global Grid Forum Information Services Working Group, Amsterdam, The Netherlands, 2-9 March 2001. *Chair*.
- [10] ACM Java Grande 2000 Conference. San Francisco, California, <http://www.extreme.indiana.edu/java00>, 3-5 June 2000. *Committee*.
- [11] International Workshop on Metacomputing Systems and Applications. Toronto, <http://www.ens-lyon.fr/~desprez/MSA/MSA2000/msa-cfp.htm>, 21-24 August 2000. *Committee*.
- [12] Ninth SIAM Meeting on Parallel Processing. Mini-symposium on Innovative Wide Area Applications, San Antonio, TX, 22-24 March 1999. *Host*.
- [13] International Conference on Parallel and Distributed Processing Techniques and Applications. Las Vegas, NV, 30 June - 2 July 1999. *Committee*.
- [14] 2nd Workshop on Desktop Access to Remote Resources. Sandia National Laboratories, Albuquerque, NM, 15-16 February 1999. *Steering Committee*.
- [15] Computing Portals Workshop and 3rd International Workshop on Desktop Access to Remote Resources. Together with Computing Portals Working Group (Datorr), Java Grande Forum, and the 3rd International Symposium on Computing in Object-Oriented Parallel Environments, San Francisco, California, U.S.A., <http://www.computingportals.org> and <http://www.acl.lanl.gov/iscope99/>, 7 December 1999. *Steering Committee and Chair*.
- [16] First Workshop Desktop Access to Remote Resources, 8-9 October 1998. *Steering Committee and Chair*.
- [17] PDPTA 1998. Las Vegas, Nevada, August 1998. *Session Host*.
- [18] Supercomputing SC'93. Portland, OR, <http://www.supercomp.org>, 15-19 November 1993. *Committee*.

- [19] IEEE Task Force on Cluster Computing. <http://ieeetfcc.org>, 1998-present. *Advisory Committee*.
- [20] Birds of a Feather Session on Desktop Access to Remote Resources at Supercomputing. Orlando, FL, November 1998. *Chair*.

## Referee

- [1] *Journal of International Telemedical Information Society (ITIS) Letters*. <http://www.hoise.com/vmw/conference/ITIS98/>, 1998. *Referee*.
- [2] *The Eleventh International Conference on Parallel Architectures and Compilation Techniques*, Charlottesville, Virginia, 22-25 September 2002. *Referee*.
- [3] Euro-Par 2001. Manchester, UK, <http://europar.man.ac.uk/>, 28-31 August 2001. *Referee*.
- [4] International Parallel and Distributed Processing Symposium. San Francisco, CA, <http://www.ipdps.org/ipdps2001/>, 27 April 2001. *Referee*.
- [5] *IEEE Concurrency*. <http://www.computer.org/concurrency/>, 2001. *Referee*.
- [6] Supercomputing, SC, 1995, 1997, 1998. *Referee*.
- [7] Java for High Performance Networking, 1997, 1998, 1999, 2000, 2001. *Referee*.
- [8] *Concurrency and Computation: Practice and Experience*. <http://aspen.ucs.indiana.edu/CandCPandE/>. *Referee*.

## Memberships

- [1] JavaGrande Forum, since 1998. *Member*.
- [2] IEEE, 1993-1994, 2001-present. *Member*.